

Astomum Muhlenbergianum, *Phascum cuspidatum* and *Weisia microstoma* were found growing in association with each other, and sometimes with *Pottia truncata* (Hedw.) Furnr. These three species may have a coastal-plain distribution, at least in eastern Canada. For the writer has not as yet found them in central New Brunswick.

GRAND FALLS,
NEW BRUNSWICK

CYPRIPEDIUM CALCEOLUS L., var. **parviflorum** (Salisb.), comb. nov. *C. Calceolus*, β . in part, L. Sp. Pl. 951 (1753). *C. parviflorum* Salisb. in Trans. Linn. Soc. i. 77, t. 2, fig. 2 (1791). *C. flavescens* DC., B. *C. parviflorum* (Salisb.) DC. in Redouté, Liliaceae, i. pl. 20 (1802). *C. luteum* Raf., var. *parviflorum* (Salisb.) Raf. Med. Bot. i. 142 (1828). *C. hirsutum* Mill., var. *parviflorum* (Salisb.) Rolfe in Orchid Rev. xv. 184 (1907). *C. bulbosum* Mill., var. *parviflorum* (Salisb.) Farwell in Fifteenth Rep. Mich. Acad. Sci. 170 (1913). *Calceolus parviflorus* (Salisb.) Nieuwl. in Am. Midl. Nat. iii. 118 (1913).

The large-flowered *Cypripedium Calceolus*, var. *pubescens* (Willd.) Correll in Bot. Mus. Lfts. (Harvard), vii. 14 (1938) is relatively southern, characteristic of rich and dry to merely damp woodland from Georgia to Missouri, thence north to the Northern States, reaching its northeastern limit in central Maine. The smaller-flowered var. *parviflorum*, on the other hand, is relatively northern, extending from the southern part of the Labrador Peninsula to northern British Columbia, thence south to Newfoundland, Prince Edward Island, New Brunswick, New England, New Jersey, upland of Maryland, mountain-region to Georgia and Tennessee, Ohio, Indiana, Illinois, Missouri, New Mexico, Utah and Washington, mostly in calcareous bogs or mossy swamps or mossy woods or on wet rocks, slopes or shores. The differences between the two are clearly brought out by Mr. Albert M. Fuller in his masterly Studies on the Flora of Wisconsin I. The Orchids, Orchidaceae—Bull. Pub. Mus. Milwaukee, xiv¹. 64–70 (1933), a treatment meriting careful consideration.—M. L. FERNALD.